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MDEQ-RRD, Superfund Section
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Subject:
Kalamazoo River Monthly Report (May 2007)

Dear Paul:

Attached is the 197th monthly progress report for the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site. This progress report is submitted as per paragraph 33 of the 1990 Administrative Order by Consent (AOC) for the Site (Order No. DFO-ERD-91-001) and Section XVI of the 1999 AOC for the King Highway Landfill (Order No. AOC-ERD-99-010).

If you have any questions, please do not hesitate to contact us.

Sincerely,

ARCADIS of New York, Inc.

Douglas K. Cowin, P.G.
Sr. Geologist II

Attachment

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INDUSTRIAL

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Our ref:
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**MONTHLY REPORT FOR THE ALLIED PAPER, INC./PORTAGE CREEK/
KALAMAZOO RIVER SUPERFUND SITE**

REPORT #197, MAY 2007

**PREPARED BY ARCADIS BBL
JUNE 21, 2007**

ON BEHALF OF THE KALAMAZOO RIVER STUDY GROUP (KRSG)

SUBMITTED TO

**PAUL T. BUCHOLTZ, PROJECT MANAGER
REMEDIATION AND REDEVELOPMENT DIVISION**

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ)

**Monthly Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site**

REPORT #197, MAY 2007

I. Identification of Remedial Investigation and Feasibility Study (RI/FS) Activities

Task 1 — Description of the Current Situation

- Complete.

Task 2 — Plans and Management

- On May 17, MDEQ forwarded to KRSG a response regarding dispute resolution for the 2006 cost recovery package.
- On May 25, KRSG notified MDEQ that the disputes regarding the 2006 cost recovery package were resolved.

Task 3 — Site Investigation

- No activity.

Task 4 — Preliminary Remedial Technologies

- No activity.

Task 5 — Site Investigation Analysis

- No activity.

Task 6 — RI/FS Reports, Risk Assessments and Records of Decision

- MDEQ will prepare the final *Allied Paper, Inc. Operable Unit Remedial Investigation Report* (Allied OU RI Report). MDEQ will finalize this report upon receipt of comments from the USEPA.

Task 7 — Community Relations Support

- No activity.

II. Status of Work at the Site

Task 1 — RI Activities

- See Section I, Task 3, for information.

Task 2 — Remedial Action Activities

- No activity.

**Monthly Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site**

REPORT #197, MAY 2007

Task 3 — Operation, Maintenance and Monitoring (OMM) Activities

- On May 1, ARCADIS BBL submitted to MDEQ the 62nd monthly water-elevation report for the Allied OU. This report covered activities performed during March 2007.
- On May 2, ARCADIS BBL forwarded to MDEQ the validated analytical results of the 2007 first quarter post-closure groundwater sampling event conducted at the King Highway Landfill (KHL) OU.
- On May 4, ARCADIS BBL transmitted to the City of Kalamazoo the monthly monitoring report (April 2007) regarding treated groundwater at the Allied OU.
- On May 4, ARCADIS BBL measured water levels at the KHL OU in anticipation of the 2007 second quarter post-closure groundwater sampling event.
- During the week of May 7, ARCADIS BBL conducted the 2007 second quarter post-closure groundwater sampling event at the KHL OU. Water levels were also measured on a daily basis during the groundwater sampling event. Table A presents a summary of the samples collected.
- On May 9, Earth Tech collected samples of the influent and effluent at the Allied OU water treatment plant (WTP) for polychlorinated biphenyl (PCB) analysis.
- On May 1, 9, and 15, ARCADIS BBL transmitted to MDEQ a spreadsheet and hydrographs presenting groundwater and river elevations measured at the KHL OU as part of the 2007 second quarter post-closure groundwater sampling event.
- On May 10, the second quarter landfill gas monitoring event occurred at the KHL OU. Table B presents a summary of the data collected.
- On May 29, Earth Tech measured static water levels at the Allied OU.
- On May 31, Severn Trent Laboratories, Inc. (STL) forwarded to ARCADIS BBL the data package (KAL431) regarding the 2007 second quarter post-closure groundwater sampling event at the KHL OU.
- In May, operation of the WTP continued at the Allied OU. A total of 638,038 gallons of water was treated and discharged to the Kalamazoo Water Reclamation Facility.
- In May, Earth Tech performed OMM activities at the Allied OU, including chlorinating the sumps, inspecting soil sedimentation and erosion control features, inspecting the Site fence, and inspecting groundwater recovery system components.
- Georgia-Pacific awaits MDEQ's comments on the July 31, 2006, *Work Plan for Additional Activities at the King Highway Landfill*.

**Monthly Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site**

REPORT #197, MAY 2007

- Georgia-Pacific awaits the MDEQ's approval of the January 2005 *Draft Notice of MDEQ-Approved Environmental Remediation for the Former Kalamazoo Mill Lagoons* (the approval of which is related to approval of the above-referenced July 31, 2006 submittal).
- Georgia-Pacific awaits the results of CDM's split sample results from the 2007 second quarter post-closure groundwater sampling event at the KHL OU.

III. Percentages

Task 1 — Description of the Current Situation is complete.

Task 2 — Plans and Management is approximately 90 percent complete.

Task 3 — Site Investigation is approximately 95 percent complete.

IV. Problems

- No problems were encountered.

V. Actions Taken to Correct Problems

- No actions necessary.

VI. Upcoming Activities

- In June 2007, Earth Tech is scheduled to measure water levels at the Allied OU.
- In June 2007, Earth Tech is scheduled to collect samples of the influent and effluent at the Allied OU WTP for PCB analysis.
- In June 2007, Earth Tech will continue to perform OMM activities at the Allied OU.
- In June 2007, Terra is scheduled to perform the second quarter 2007 post-closure inspection at the KHL OU.
- On June 1, ARCADIS BBL is scheduled to transmit to the City of Kalamazoo the monthly monitoring report (May 2007) regarding treated groundwater at the Allied OU.
- On June 7, ARCADIS BBL is scheduled to submit to MDEQ the 63rd monthly water-elevation report for the Allied OU. This report will cover activities performed during April 2007.

VII. Changes in Personnel

- No changes in personnel.

**Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
May 2007 Monthly Report**

Table A — Summary of Groundwater Samples Collected during May 2007 at the KHL OU

Date Sampled	Well ID	ARCADIS BBL Sample ID	CDM Sample ID
5/7/07	MW-7	H85396	OU3-MW7-01
5/8/07	MW-1AR	H85398	(No split taken)
	MW-2R	H85397	(No split taken)
	MW-16A	H85400	(No split taken)
	MW-11RR	H85399	(No split taken)
	Equipment Blank (MW-11RR)	H85401	OU3-MW11RR-02
5/9/07	MW-12B	H85402	(No split taken)
	MW-16B	H85403	(No split taken)
	MW-12AR	H85404 ^a	(No split taken)
	MW-13B	H85405	(No split taken)
	MW-13AR	H85406	(No split taken)
5/10/07	MW-8AR	H85407 [H85408]	OU3-MW8AR-01 [OU3-MW8AR-03]
	MW-8BR	H85409	(No split taken)
	MW-14AR	H85412	OU3-MW14AR-01
	MW-15AR	H85410 [H85411]	OU3-MW15AR-01
5/11/07	MW-3AR	H85413	OU3-MW3AR-01 ^a

Notes:

^a MS/MSD analyzed for this sample.

- ARCADIS BBL samples analyzed for total organic carbon; total polychlorinated biphenyls (PCB); semivolatile organic compounds (including naphthalene, 4-methylphenol, and phenol); acetone; chemical oxygen demand; nitrate; sulfate; alkalinity; total suspended solids; and total metals (barium, chromium, calcium, thallium, iron, sodium, and vanadium).
- CDM samples analyzed for low-level PCB Aroclors.
- Duplicate samples are presented in brackets.

**Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
May 2007 Monthly Report**

Table B — Summary of May 2007 Landfill Gas Monitoring Results — KHL OU

Sample Location	Methane CH₄ (%)	Carbon Dioxide CO₂ (%)	Oxygen O₂ (%)	Balance Gas (%)
BH-201	0.0	0.7	20.0	79.3
BH-301	0.0	0.5	20.4	79.1
BH-501	0.0	0.8	20.2	79.0
BH-502	0.0	2.4	17.1	80.5
BH-801	0.0	1.8	19.0	79.2
BH-802	0.0	0.4	20.6	79.0
GW-1	52.8	46.8	0.2	0.2
GW-2	61.5	38.0	0.2	0.3
GW-3	46.8	20.0	20.1	13.1
GW-4	50.2	44.6	0.4	4.8
GW-5	26.2	6.4	1.6	65.8
GW-6	64.5	24.9	0.4	10.2
GW-7	0.0	1.6	18.6	79.8
GW-8	17.0	7.8	0.4	74.8
GW-9	0.0	14.4	0.9	84.7
GW-10	0.0	1.1	18.9	80.0
GW-11	0.0	4.1	13.3	82.6
GW-12	0.0	3.0	15.0	82.0
V-1-1	57.0	42.4	0.1	0.5
V-2-1	35.0	15.0	9.6	40.4
V-2-2	33.7	18.4	8.2	39.7
V-3-1	4.0	1.8	19.2	75.0
V-4-1	14.6	19.7	6.4	59.3
V-4-2	7.0	4.1	18.2	70.7
V-4-3	0.3	2.0	16.0	81.7
V-4-4	0.0	0.4	20.7	78.9
V-4-5	0.0	2.8	17.2	80.0
V-4-6	0.0	5.2	16.1	78.7

Notes:

1. Landfill gas monitoring results provided by Golder Associates, Inc. (Golder) using a GEM™ 500 portable gas analyzer.
2. BH = Temporary gas probe.
3. GW = Permanent gas probe.
4. V = Gas vent.